

Launch Mission Execution Forecast

Falcon 9 Starlink 4-7 Mission:

Issued: 29 Jan 2022 / 0900L (1400Z)

Valid: 30 Jan 2022 / 1429 – 1809L (1929 – 2309Z)



Forecast Discussion: The low pressure system that developed off the east coast of Florida yesterday has already moved well up the eastern US coast and pulled a strong cold front through the state this morning. Brisk northwesterly winds will continue, bringing clear, dry, and cold conditions to the Spaceport. The Arctic high in the system's wake will settle into the Gulf of Mexico by late today, before sliding into the central Gulf on Sunday. Winds will guickly diminish late this evening and into the launch window Sunday afternoon. Only a few low topped cumulus clouds are expected to be present, though these may be cold enough for a Cumulus Cloud threat during the window.

Weather continues to be favorable into Monday as the high center slides east across the Florida peninsula. Dry conditions remain into the launch window Monday afternoon, with a few more cumulus clouds as light low level flow turns east off of the Atlantic. There will only be a small concern for Cumulus Clouds during the backup launch window.

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Day	10% Primary Concerns: Cumulus Cloud Rule								
nuch	Weather Conditions							Additional Risk Criteria	
aun	Weather/Visi	bility:	None /7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
Ľ	Temp/Humid	ity:	50°F / 55%	Stratocumulus	Few	3,000	4,500	Booster Recovery Weather:	Moderate
		(200%)	290° 10 - 15 mph					Solar Activity:	Low
	Liftoff Winds	(200).	290 10 10 πρπ					•	
	Liftoff Winds	(200).	•	ability of Vic	olating W	eather	Constra	•	
)elay	Liftoff Winds		•			eather	Constra	•	
ur Delay			Prob ary Concerns: Cum		le	eather	Constra	•	
		Prima	Prob ary Concerns: Cum	nulus Cloud Ru	le		Constra Tops (ft)	ints	
24-Hour Delay	10%	Prima	Prob ary Concerns: Cum Weathe	nulus Cloud Ru	le Clouds	3		ints Additional Risk Cri	iteria

Next Forecast Will Be Issued | As Needed